



Full wwPDB X-ray Structure Validation Report ⓘ

May 24, 2020 – 10:16 pm BST

PDB ID : 1O9U
Title : GLYCOGEN SYNTHASE KINASE 3 BETA COMPLEXED WITH AXIN PEPTIDE
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Deposited on : 2002-12-19
Resolution : 2.40 Å(reported)

This is a Full wwPDB X-ray Structure Validation Report for a publicly released PDB entry.

We welcome your comments at validation@mail.wwpdb.org

A user guide is available at

<https://www.wwpdb.org/validation/2017/XrayValidationReportHelp>

with specific help available everywhere you see the ⓘ symbol.

The following versions of software and data (see [references ⓘ](#)) were used in the production of this report:

MolProbity : 4.02b-467
Mogul : 1.8.5 (274361), CSD as541be (2020)
Xtriage (Phenix) : 1.13
EDS : 2.11
Percentile statistics : 20191225.v01 (using entries in the PDB archive December 25th 2019)
Refmac : 5.8.0158
CCP4 : 7.0.044 (Gargrove)
Ideal geometry (proteins) : Engh & Huber (2001)
Ideal geometry (DNA, RNA) : Parkinson et al. (1996)
Validation Pipeline (wwPDB-VP) : 2.11

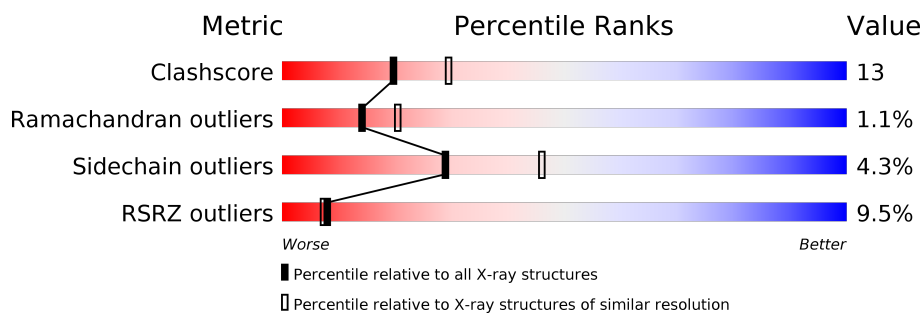
1 Overall quality at a glance

The following experimental techniques were used to determine the structure:

X-RAY DIFFRACTION

The reported resolution of this entry is 2.40 Å.

Percentile scores (ranging between 0-100) for global validation metrics of the entry are shown in the following graphic. The table shows the number of entries on which the scores are based.



Metric	Whole archive (#Entries)	Similar resolution (#Entries, resolution range(Å))
Clashscore	141614	4398 (2.40-2.40)
Ramachandran outliers	138981	4318 (2.40-2.40)
Sidechain outliers	138945	4319 (2.40-2.40)
RSRZ outliers	127900	3811 (2.40-2.40)

The table below summarises the geometric issues observed across the polymeric chains and their fit to the electron density. The red, orange, yellow and green segments on the lower bar indicate the fraction of residues that contain outliers for ≥ 3 , 2, 1 and 0 types of geometric quality criteria respectively. A grey segment represents the fraction of residues that are not modelled. The numeric value for each fraction is indicated below the corresponding segment, with a dot representing fractions $\leq 5\%$. The upper red bar (where present) indicates the fraction of residues that have poor fit to the electron density. The numeric value is given above the bar.

Mol	Chain	Length	Quality of chain
1	A	350	 9% 75% 22%
2	B	18	 11% 78% 22%

2 Entry composition [i](#)

There are 4 unique types of molecules in this entry. The entry contains 3086 atoms, of which 0 are hydrogens and 0 are deuteriums.

In the tables below, the ZeroOcc column contains the number of atoms modelled with zero occupancy, the AltConf column contains the number of residues with at least one atom in alternate conformation and the Trace column contains the number of residues modelled with at most 2 atoms.

- Molecule 1 is a protein called GLYCOGEN SYNTHASE KINASE-3 BETA.

Mol	Chain	Residues	Atoms						ZeroOcc	AltConf	Trace
			Total	C	N	O	P	S			
1	A	350	2791	1794	477	508	1	11	0	0	0

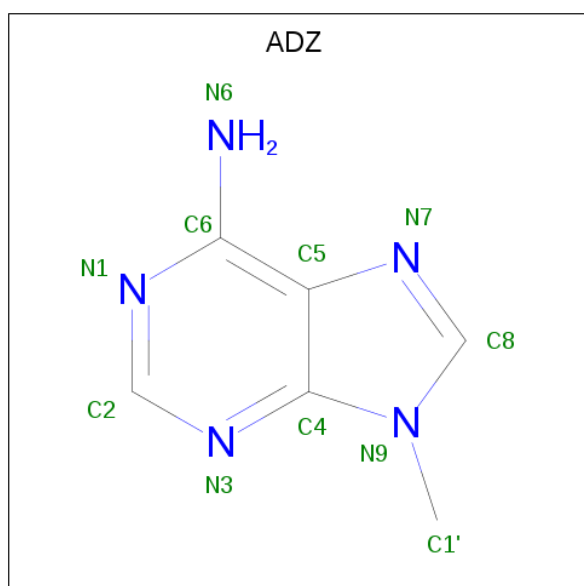
There is a discrepancy between the modelled and reference sequences:

Chain	Residue	Modelled	Actual	Comment	Reference
A	350	LEU	HIS	conflict	UNP P49841

- Molecule 2 is a protein called AXIN PEPTIDE.

Mol	Chain	Residues	Atoms				ZeroOcc	AltConf	Trace
			Total	C	N	O			
2	B	18	151	96	26	29	0	0	0

- Molecule 3 is 9-METHYL-9H-PURIN-6-AMINE (three-letter code: ADZ) (formula: C₆H₇N₅).



Mol	Chain	Residues	Atoms			ZeroOcc	AltConf
3	A	1	Total	C	N	0	0
			11	6	5		

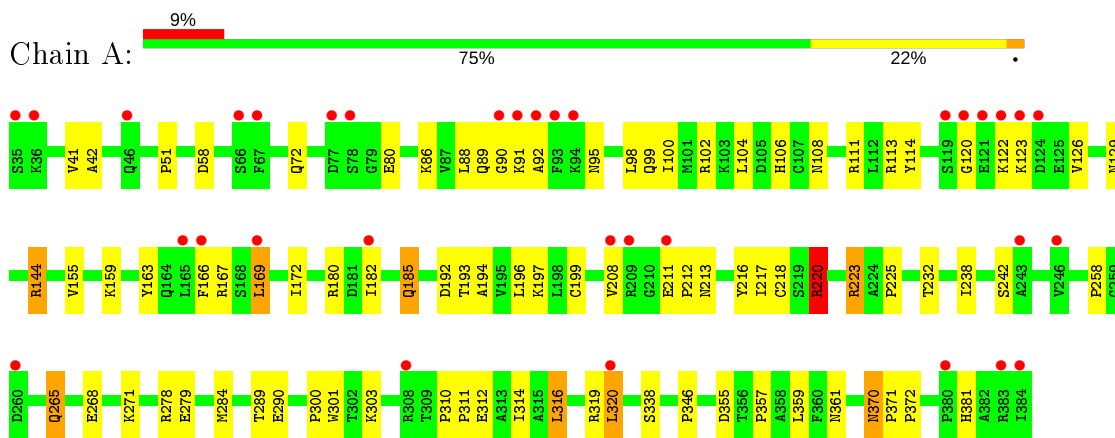
- Molecule 4 is water.

Mol	Chain	Residues	Atoms		ZeroOcc	AltConf
4	A	126	Total	O	0	0
			126	126		
4	B	7	Total	O	0	0
			7	7		

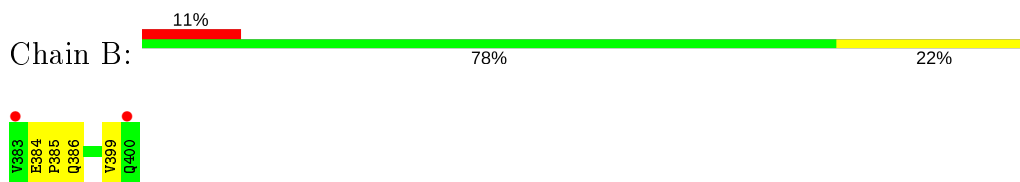
3 Residue-property plots [i](#)

These plots are drawn for all protein, RNA and DNA chains in the entry. The first graphic for a chain summarises the proportions of the various outlier classes displayed in the second graphic. The second graphic shows the sequence view annotated by issues in geometry and electron density. Residues are color-coded according to the number of geometric quality criteria for which they contain at least one outlier: green = 0, yellow = 1, orange = 2 and red = 3 or more. A red dot above a residue indicates a poor fit to the electron density ($RSRZ > 2$). Stretches of 2 or more consecutive residues without any outlier are shown as a green connector. Residues present in the sample, but not in the model, are shown in grey.

- Molecule 1: GLYCOGEN SYNTHASE KINASE-3 BETA



- Molecule 2: AXIN PEPTIDE



4 Data and refinement statistics

Property	Value	Source
Space group	P 61 2 2	Depositor
Cell constants a, b, c, α , β , γ	81.95Å 81.95Å 282.44Å 90.00° 90.00° 120.00°	Depositor
Resolution (Å)	23.31 – 2.40 30.05 – 2.40	Depositor EDS
% Data completeness (in resolution range)	98.6 (23.31-2.40) 98.6 (30.05-2.40)	Depositor EDS
R_{merge}	(Not available)	Depositor
R_{sym}	0.08	Depositor
$\langle I/\sigma(I) \rangle$ ¹	2.55 (at 2.39Å)	Xtrriage
Refinement program	CNS 1.1	Depositor
R, R_{free}	0.233 , 0.260 0.228 , (Not available)	Depositor DCC
R_{free} test set	No test flags present.	wwPDB-VP
Wilson B-factor (Å ²)	46.0	Xtrriage
Anisotropy	0.342	Xtrriage
Bulk solvent k_{sol} (e/Å ³), B_{sol} (Å ²)	0.36 , 55.5	EDS
L-test for twinning ²	$\langle L \rangle = 0.50$, $\langle L^2 \rangle = 0.33$	Xtrriage
Estimated twinning fraction	No twinning to report.	Xtrriage
F_o, F_c correlation	0.93	EDS
Total number of atoms	3086	wwPDB-VP
Average B, all atoms (Å ²)	54.0	wwPDB-VP

Xtrriage's analysis on translational NCS is as follows: *The largest off-origin peak in the Patterson function is 3.45% of the height of the origin peak. No significant pseudotranslation is detected.*

¹Intensities estimated from amplitudes.

²Theoretical values of $\langle |L| \rangle$, $\langle L^2 \rangle$ for acentric reflections are 0.5, 0.333 respectively for untwinned datasets, and 0.375, 0.2 for perfectly twinned datasets.

5 Model quality [i](#)

5.1 Standard geometry [i](#)

Bond lengths and bond angles in the following residue types are not validated in this section: ADZ, PTR

The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 5$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Chain	Bond lengths		Bond angles	
		RMSZ	# Z >5	RMSZ	# Z >5
1	A	0.38	0/2844	0.56	0/3868
2	B	0.38	0/153	0.46	0/204
All	All	0.38	0/2997	0.55	0/4072

There are no bond length outliers.

There are no bond angle outliers.

There are no chirality outliers.

There are no planarity outliers.

5.2 Too-close contacts [i](#)

In the following table, the Non-H and H(model) columns list the number of non-hydrogen atoms and hydrogen atoms in the chain respectively. The H(added) column lists the number of hydrogen atoms added and optimized by MolProbity. The Clashes column lists the number of clashes within the asymmetric unit, whereas Symm-Clashes lists symmetry related clashes.

Mol	Chain	Non-H	H(model)	H(added)	Clashes	Symm-Clashes
1	A	2791	0	2813	74	0
2	B	151	0	149	3	0
3	A	11	0	7	0	0
4	A	126	0	0	4	0
4	B	7	0	0	0	0
All	All	3086	0	2969	75	0

The all-atom clashscore is defined as the number of clashes found per 1000 atoms (including hydrogen atoms). The all-atom clashscore for this structure is 13.

All (75) close contacts within the same asymmetric unit are listed below, sorted by their clash magnitude.

Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:185:GLN:H	1:A:185:GLN:NE2	1.65	0.94
1:A:185:GLN:H	1:A:185:GLN:HE21	1.11	0.94
1:A:144:ARG:NH1	1:A:144:ARG:HG3	1.90	0.85
2:B:384:GLU:HB3	2:B:385:PRO:HD3	1.62	0.81
1:A:199:CYS:HB2	4:A:2056:HOH:O	1.81	0.81
1:A:144:ARG:HH11	1:A:144:ARG:HG3	1.43	0.79
1:A:91:LYS:HE2	1:A:91:LYS:HA	1.68	0.75
1:A:144:ARG:HH11	1:A:144:ARG:CG	2.01	0.73
1:A:185:GLN:N	1:A:185:GLN:HE21	1.88	0.70
1:A:155:VAL:HG12	1:A:159:LYS:HE3	1.77	0.67
1:A:208:VAL:HG23	1:A:211:GLU:HB3	1.77	0.66
1:A:169:LEU:HD12	1:A:172:ILE:HD11	1.77	0.66
1:A:370:ASN:HD22	1:A:372:PRO:HD2	1.60	0.66
1:A:80:GLU:CD	1:A:113:ARG:HH22	1.98	0.66
1:A:279:GLU:CD	1:A:279:GLU:H	1.98	0.66
1:A:144:ARG:NH1	4:A:2037:HOH:O	2.10	0.65
1:A:86:LYS:HE2	1:A:129:ASN:HD21	1.62	0.64
1:A:89:GLN:HG3	1:A:91:LYS:H	1.63	0.64
1:A:220:ARG:O	1:A:265:GLN:NE2	2.31	0.63
1:A:319:ARG:HH11	1:A:319:ARG:HG3	1.64	0.63
1:A:271:LYS:HD2	2:B:399:VAL:HG11	1.81	0.63
1:A:213:ASN:H	1:A:232:THR:CG2	2.14	0.60
1:A:300:PRO:HB2	1:A:303:LYS:HD3	1.84	0.60
1:A:370:ASN:ND2	1:A:372:PRO:HD2	2.16	0.60
1:A:208:VAL:HG23	1:A:211:GLU:CB	2.38	0.53
1:A:180:ARG:O	1:A:218:CYS:HA	2.08	0.53
1:A:217:ILE:O	1:A:218:CYS:HB2	2.09	0.52
1:A:182:ILE:HB	1:A:242:SER:HB3	1.92	0.51
1:A:213:ASN:O	1:A:232:THR:HG23	2.11	0.51
1:A:185:GLN:N	1:A:185:GLN:NE2	2.48	0.51
1:A:319:ARG:NH1	1:A:319:ARG:HG3	2.25	0.51
1:A:301:TRP:HB3	1:A:314:ILE:HG23	1.93	0.50
1:A:91:LYS:HG3	1:A:126:VAL:HG21	1.93	0.50
1:A:98:LEU:O	1:A:102:ARG:HG3	2.11	0.49
1:A:144:ARG:NH2	4:A:2037:HOH:O	2.44	0.49
1:A:106:HIS:CD2	1:A:108:ASN:H	2.31	0.49
1:A:213:ASN:H	1:A:232:THR:HG23	1.76	0.49
1:A:258:PRO:O	1:A:268:GLU:HG3	2.14	0.48
1:A:220:ARG:NH1	1:A:265:GLN:HG3	2.29	0.48
1:A:371:PRO:HB2	1:A:372:PRO:HD3	1.95	0.48
1:A:278:ARG:HG3	1:A:289:THR:HG23	1.96	0.47
1:A:346:PRO:HG3	1:A:381:HIS:ND1	2.29	0.47

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Atom-1	Atom-2	Interatomic distance (Å)	Clash overlap (Å)
1:A:196:LEU:HD23	1:A:196:LEU:C	2.34	0.47
1:A:346:PRO:HG3	1:A:381:HIS:CE1	2.49	0.47
1:A:100:ILE:O	1:A:104:LEU:HG	2.14	0.47
1:A:218:CYS:HB2	1:A:223:ARG:HG3	1.96	0.47
1:A:225:PRO:HB2	1:A:284:MET:SD	2.55	0.47
1:A:166:PHE:HZ	1:A:320:LEU:HD21	1.80	0.47
1:A:106:HIS:HD2	1:A:108:ASN:H	1.62	0.46
1:A:212:PRO:HA	1:A:232:THR:HG22	1.98	0.46
1:A:95:ASN:O	1:A:99:GLN:HG2	2.16	0.45
1:A:90:GLY:C	1:A:92:ALA:H	2.20	0.45
1:A:357:PRO:O	1:A:359:LEU:HG	2.16	0.45
1:A:182:ILE:HB	1:A:242:SER:CB	2.47	0.44
1:A:42:ALA:HB1	1:A:114:TYR:HB3	1.98	0.44
1:A:213:ASN:H	1:A:232:THR:HG22	1.82	0.44
1:A:90:GLY:O	1:A:91:LYS:HB2	2.16	0.44
1:A:316:LEU:HD22	1:A:320:LEU:HD22	2.00	0.44
1:A:180:ARG:HG2	1:A:238:ILE:HD11	2.00	0.43
1:A:167:ARG:HH22	1:A:361:ASN:CG	2.21	0.43
1:A:193:THR:O	1:A:194:ALA:HB3	2.18	0.43
1:A:220:ARG:N	1:A:223:ARG:HH21	2.17	0.43
1:A:271:LYS:HD2	2:B:399:VAL:CG1	2.49	0.43
1:A:163:TYR:CE2	1:A:359:LEU:HB3	2.53	0.43
1:A:312:GLU:OE1	1:A:338:SER:HB2	2.19	0.43
1:A:91:LYS:HA	1:A:91:LYS:CE	2.44	0.42
1:A:155:VAL:HG23	4:A:2045:HOH:O	2.20	0.42
1:A:310:PRO:HA	1:A:311:PRO:HD3	1.94	0.42
1:A:41:VAL:HG12	1:A:51:PRO:HB3	2.02	0.42
1:A:111:ARG:HH21	1:A:113:ARG:NE	2.17	0.42
1:A:289:THR:HG22	1:A:290:GLU:OE2	2.19	0.42
1:A:196:LEU:HD23	1:A:197:LYS:N	2.35	0.41
1:A:169:LEU:HD12	1:A:169:LEU:HA	1.92	0.40
1:A:88:LEU:HD23	1:A:89:GLN:N	2.36	0.40
1:A:216:PTR:O1P	1:A:220:ARG:NH2	2.54	0.40

There are no symmetry-related clashes.

5.3 Torsion angles [i](#)

5.3.1 Protein backbone [i](#)

In the following table, the Percentiles column shows the percent Ramachandran outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the backbone conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Favoured	Allowed	Outliers	Percentiles	
1	A	347/350 (99%)	317 (91%)	26 (8%)	4 (1%)	13	19
2	B	16/18 (89%)	15 (94%)	1 (6%)	0	100	100
All	All	363/368 (99%)	332 (92%)	27 (7%)	4 (1%)	14	20

All (4) Ramachandran outliers are listed below:

Mol	Chain	Res	Type
1	A	220	ARG
1	A	123	LYS
1	A	122	LYS
1	A	120	GLY

5.3.2 Protein sidechains [i](#)

In the following table, the Percentiles column shows the percent sidechain outliers of the chain as a percentile score with respect to all X-ray entries followed by that with respect to entries of similar resolution.

The Analysed column shows the number of residues for which the sidechain conformation was analysed, and the total number of residues.

Mol	Chain	Analysed	Rotameric	Outliers	Percentiles	
1	A	307/307 (100%)	294 (96%)	13 (4%)	30	47
2	B	16/16 (100%)	15 (94%)	1 (6%)	18	28
All	All	323/323 (100%)	309 (96%)	14 (4%)	29	46

All (14) residues with a non-rotameric sidechain are listed below:

Mol	Chain	Res	Type
1	A	58	ASP
1	A	72	GLN

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Mol	Chain	Res	Type
1	A	144	ARG
1	A	169	LEU
1	A	185	GLN
1	A	192	ASP
1	A	220	ARG
1	A	223	ARG
1	A	265	GLN
1	A	316	LEU
1	A	320	LEU
1	A	355	ASP
1	A	370	ASN
2	B	386	GLN

Some sidechains can be flipped to improve hydrogen bonding and reduce clashes. All (6) such sidechains are listed below:

Mol	Chain	Res	Type
1	A	72	GLN
1	A	106	HIS
1	A	129	ASN
1	A	151	GLN
1	A	185	GLN
1	A	370	ASN

5.3.3 RNA [i](#)

There are no RNA molecules in this entry.

5.4 Non-standard residues in protein, DNA, RNA chains [i](#)

1 non-standard protein/DNA/RNA residue is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
1	PTR	A	216	1	15,16,17	1.32	2 (13%)	19,22,24	0.81	0

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
1	PTR	A	216	1	-	2/10/11/13	0/1/1/1

All (2) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
1	A	216	PTR	P-OH	3.63	1.64	1.59
1	A	216	PTR	OH-CZ	2.10	1.45	1.40

There are no bond angle outliers.

There are no chirality outliers.

All (2) torsion outliers are listed below:

Mol	Chain	Res	Type	Atoms
1	A	216	PTR	C-CA-CB-CG
1	A	216	PTR	N-CA-CB-CG

There are no ring outliers.

1 monomer is involved in 1 short contact:

Mol	Chain	Res	Type	Clashes	Symm-Clashes
1	A	216	PTR	1	0

5.5 Carbohydrates [i](#)

There are no carbohydrates in this entry.

5.6 Ligand geometry [i](#)

1 ligand is modelled in this entry.

In the following table, the Counts columns list the number of bonds (or angles) for which Mogul

statistics could be retrieved, the number of bonds (or angles) that are observed in the model and the number of bonds (or angles) that are defined in the Chemical Component Dictionary. The Link column lists molecule types, if any, to which the group is linked. The Z score for a bond length (or angle) is the number of standard deviations the observed value is removed from the expected value. A bond length (or angle) with $|Z| > 2$ is considered an outlier worth inspection. RMSZ is the root-mean-square of all Z scores of the bond lengths (or angles).

Mol	Type	Chain	Res	Link	Bond lengths			Bond angles		
					Counts	RMSZ	# Z > 2	Counts	RMSZ	# Z > 2
3	ADZ	A	1386	-	10,12,12	1.86	3 (30%)	8,17,17	2.62	3 (37%)

In the following table, the Chirals column lists the number of chiral outliers, the number of chiral centers analysed, the number of these observed in the model and the number defined in the Chemical Component Dictionary. Similar counts are reported in the Torsion and Rings columns. '-' means no outliers of that kind were identified.

Mol	Type	Chain	Res	Link	Chirals	Torsions	Rings
3	ADZ	A	1386	-	-	-	0/2/2/2

All (3) bond length outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(Å)	Ideal(Å)
3	A	1386	ADZ	C2-N3	3.80	1.38	1.32
3	A	1386	ADZ	C4-N3	2.88	1.39	1.35
3	A	1386	ADZ	C2-N1	2.18	1.38	1.33

All (3) bond angle outliers are listed below:

Mol	Chain	Res	Type	Atoms	Z	Observed(°)	Ideal(°)
3	A	1386	ADZ	N3-C2-N1	-6.65	118.28	128.68
3	A	1386	ADZ	C4-C5-N7	-2.49	106.80	109.40
3	A	1386	ADZ	C2-N1-C6	2.01	122.19	118.75

There are no chirality outliers.

There are no torsion outliers.

There are no ring outliers.

No monomer is involved in short contacts.

5.7 Other polymers [\(i\)](#)

There are no such residues in this entry.

5.8 Polymer linkage issues

There are no chain breaks in this entry.

6 Fit of model and data

6.1 Protein, DNA and RNA chains

In the following table, the column labelled ‘#RSRZ> 2’ contains the number (and percentage) of RSRZ outliers, followed by percent RSRZ outliers for the chain as percentile scores relative to all X-ray entries and entries of similar resolution. The OWAB column contains the minimum, median, 95th percentile and maximum values of the occupancy-weighted average B-factor per residue. The column labelled ‘Q< 0.9’ lists the number of (and percentage) of residues with an average occupancy less than 0.9.

Mol	Chain	Analysed	<RSRZ>	#RSRZ>2	OWAB(Å ²)	Q<0.9
1	A	349/350 (99%)	0.55	33 (9%) 8 7	25, 49, 88, 113	0
2	B	18/18 (100%)	0.28	2 (11%) 5 4	36, 50, 83, 92	0
All	All	367/368 (99%)	0.54	35 (9%) 8 7	25, 50, 88, 113	0

All (35) RSRZ outliers are listed below:

Mol	Chain	Res	Type	RSRZ
1	A	92	ALA	7.1
2	B	383	VAL	6.8
1	A	384	ILE	6.2
1	A	93	PHE	5.4
1	A	120	GLY	5.3
1	A	308	ARG	5.1
1	A	383	ARG	4.6
1	A	35	SER	4.0
1	A	90	GLY	3.9
1	A	122	LYS	3.8
1	A	121	GLU	3.8
1	A	169	LEU	3.6
1	A	66	SER	3.5
1	A	46	GLN	3.5
1	A	123	LYS	3.3
1	A	243	ALA	3.3
1	A	119	SER	3.3
1	A	165	LEU	3.2
1	A	124	ASP	3.2
1	A	211	GLU	3.2
1	A	94	LYS	3.1
1	A	380	PRO	3.0
2	B	400	GLN	2.6
1	A	208	VAL	2.6

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Mol	Chain	Res	Type	RSRZ
1	A	78	SER	2.6
1	A	77	ASP	2.4
1	A	166	PHE	2.3
1	A	260	ASP	2.3
1	A	320	LEU	2.3
1	A	246	VAL	2.3
1	A	91	LYS	2.2
1	A	67	PHE	2.2
1	A	209	ARG	2.1
1	A	36	LYS	2.1
1	A	182	ILE	2.0

6.2 Non-standard residues in protein, DNA, RNA chains [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
1	PTR	A	216	16/17	0.87	0.20	61,65,73,75	0

6.3 Carbohydrates [i](#)

There are no carbohydrates in this entry.

6.4 Ligands [i](#)

In the following table, the Atoms column lists the number of modelled atoms in the group and the number defined in the chemical component dictionary. The B-factors column lists the minimum, median, 95th percentile and maximum values of B factors of atoms in the group. The column labelled 'Q< 0.9' lists the number of atoms with occupancy less than 0.9.

Mol	Type	Chain	Res	Atoms	RSCC	RSR	B-factors(Å ²)	Q<0.9
3	ADZ	A	1386	11/11	0.81	0.18	65,69,72,73	0

6.5 Other polymers [i](#)

There are no such residues in this entry.